

FIG. 1

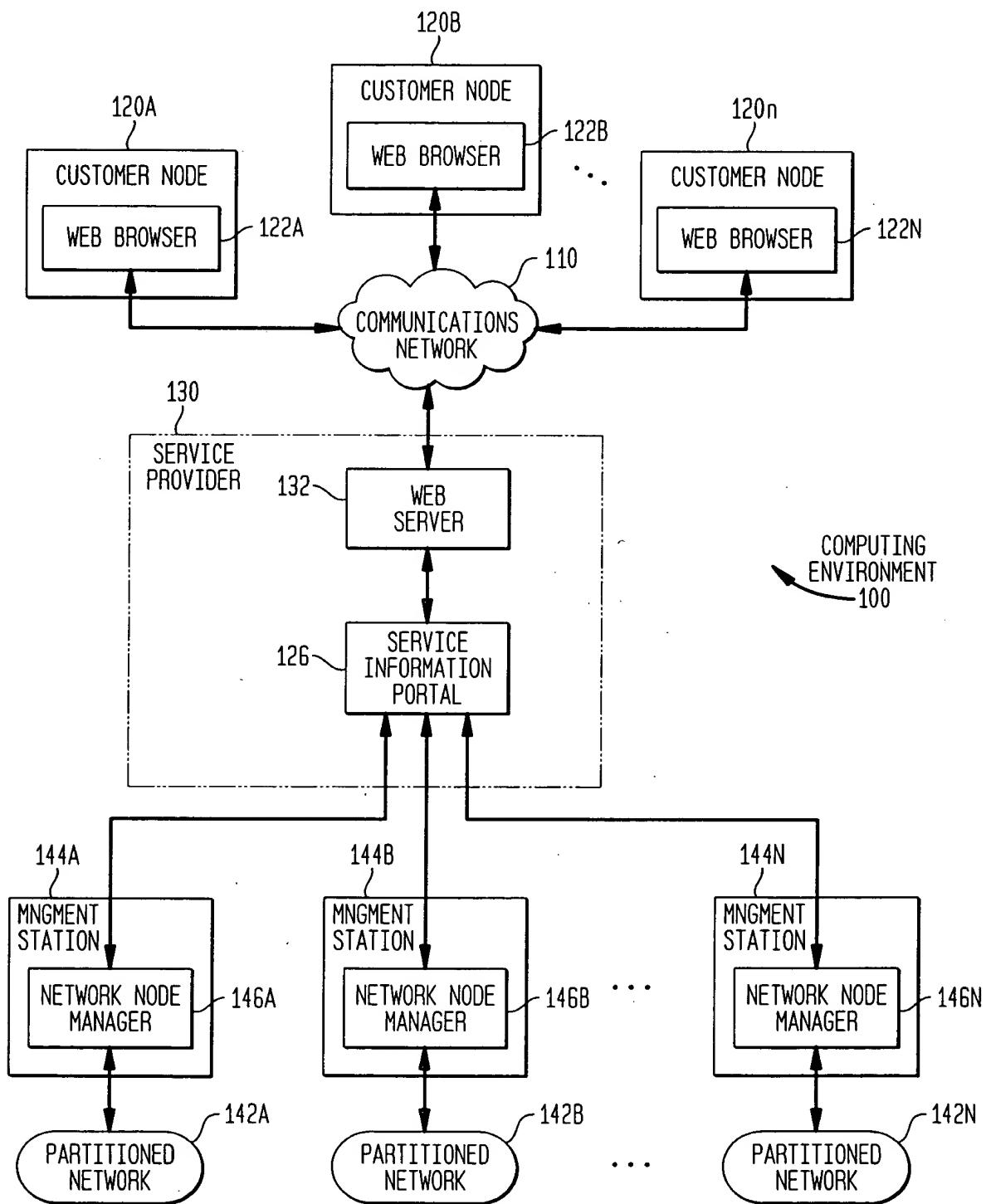
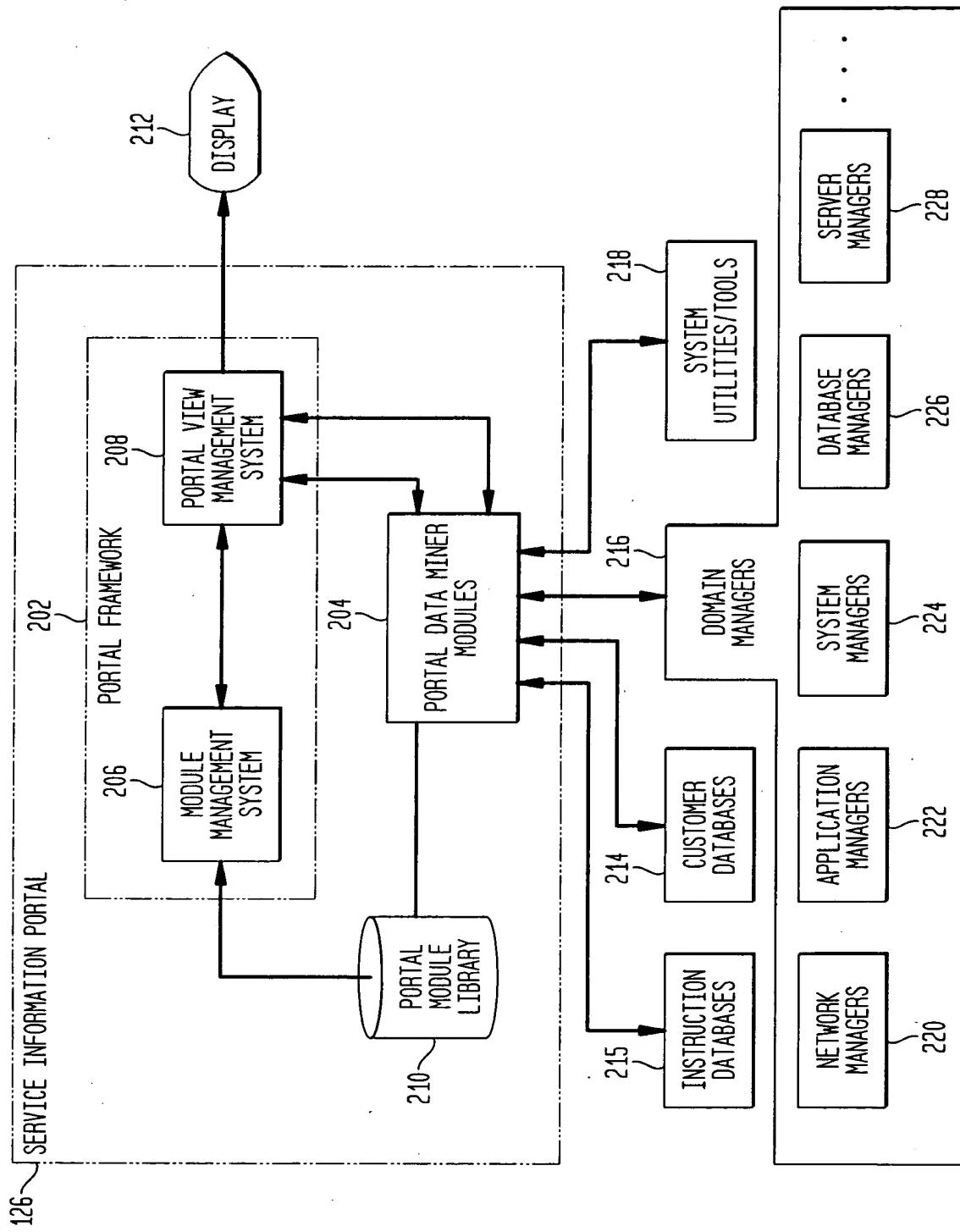
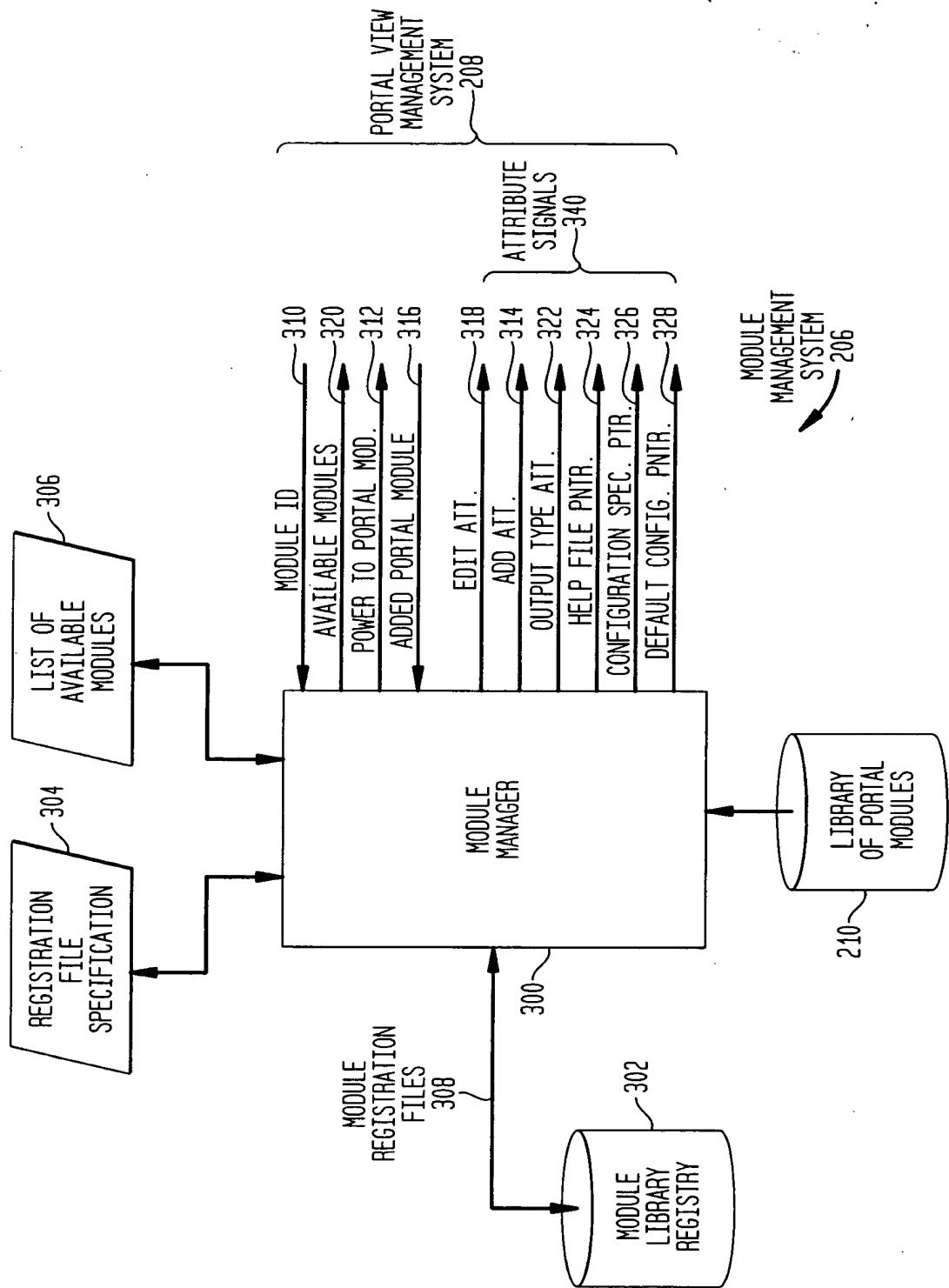


FIG. 2



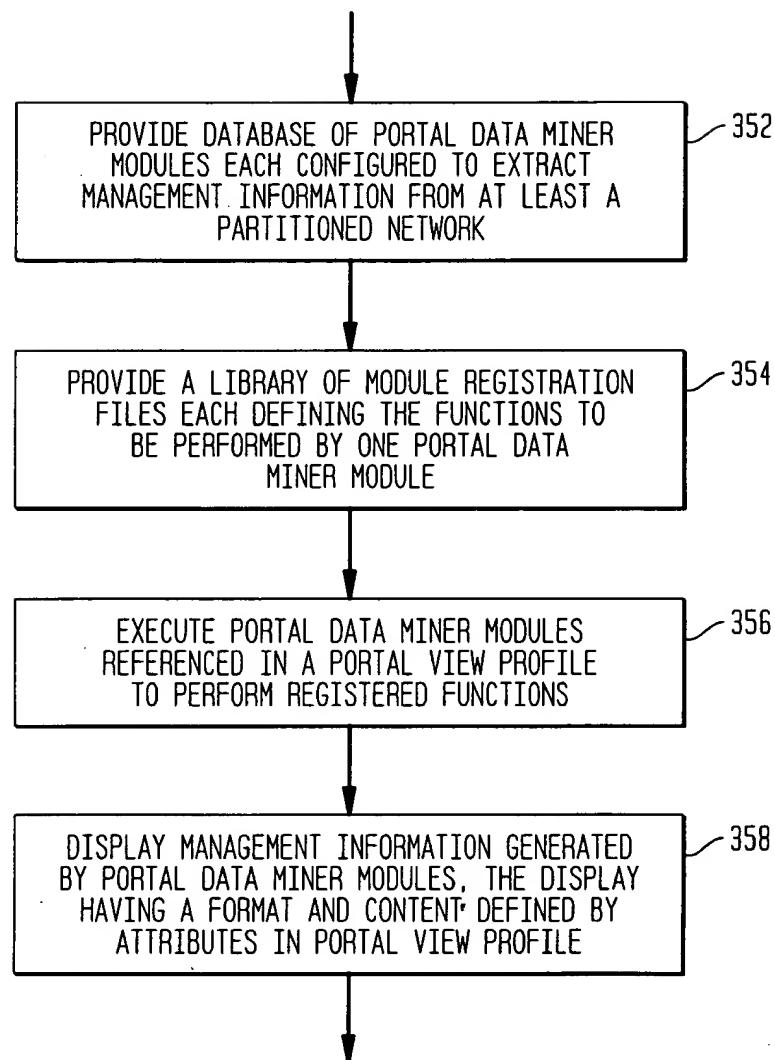
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FIG. 3A



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FIG. 3B



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FIG. 4

MODULE REGISTRATION
FILE SPECIFICATION

400

The diagram illustrates the structure of the XML file. It starts with a header section containing copyright and revision information, which is grouped under a bracket labeled 'HEADER DATA' with reference number 402. Below this is a root element 'ModuleRegistration' (line 7), which is also grouped under the same bracket. The rest of the file (lines 9 through 26) defines attributes for this element, which are grouped under a bracket labeled 'ATTRIBUTE LIST' with reference number 406.

```
1 <!-- OVModuleRegistration.dtd -->
2 <!-- Copyright (c) 2000 Hewlett-Packard
3 Company -->
4 <!-- $Revision: /main/BACCHUS/8 $ -->
5 <!-- $Date: 2001/03/15 00:13 UTC $ -->
6
7 <!--ELEMENT ModuleRegistration EMPTY--> 404
8
9 <!ATTLIST ModuleRegistration
10   vendorName      CDATA #IMPLIED
11   vendorURL       CDATA #IMPLIED
12   description     CDATA #IMPLIED
13   version         CDATA #IMPLIED
14   category        CDATA "General"
15   title           CDATA #IMPLIED
16   classid         ID #REQUIRED
17   implementation   CDATA #REQUIRED
18   outputType      (narrow|NARROW|wide|WIDE|any|ANY) "narrow"
19   add
20   (1|0|YES|yes|NO|no) "no"
21   edit
22   (1|0|YES|yes|NO|no) "no"
23   help            CDATA #IMPLIED
24   configDTD       CDATA #IMPLIED
25   defaultConfigXML CDATA #IMPLIED>
```

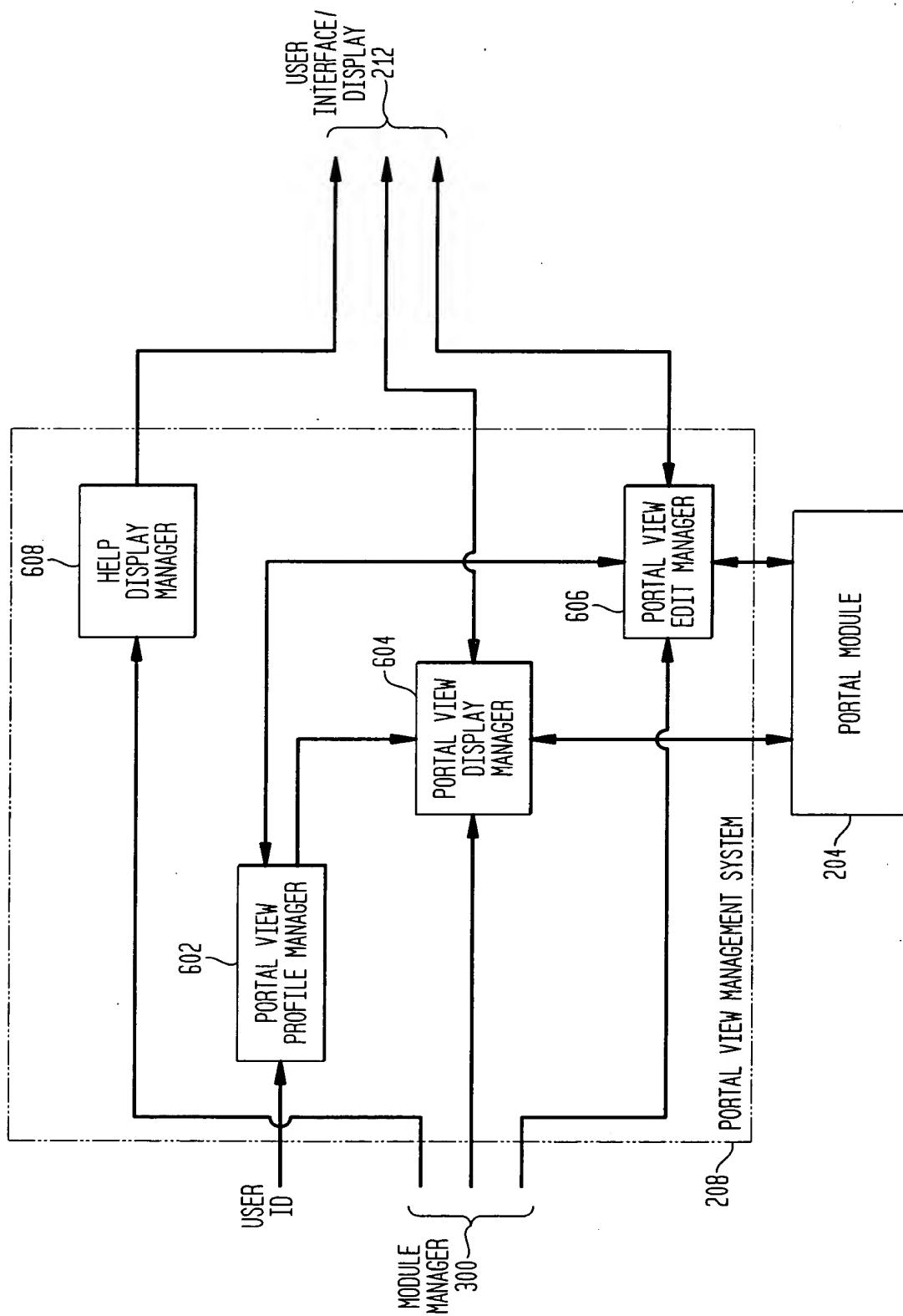
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FIG. 5

NETWORK HEALTH MODULE
REGISTRATION FILE
500

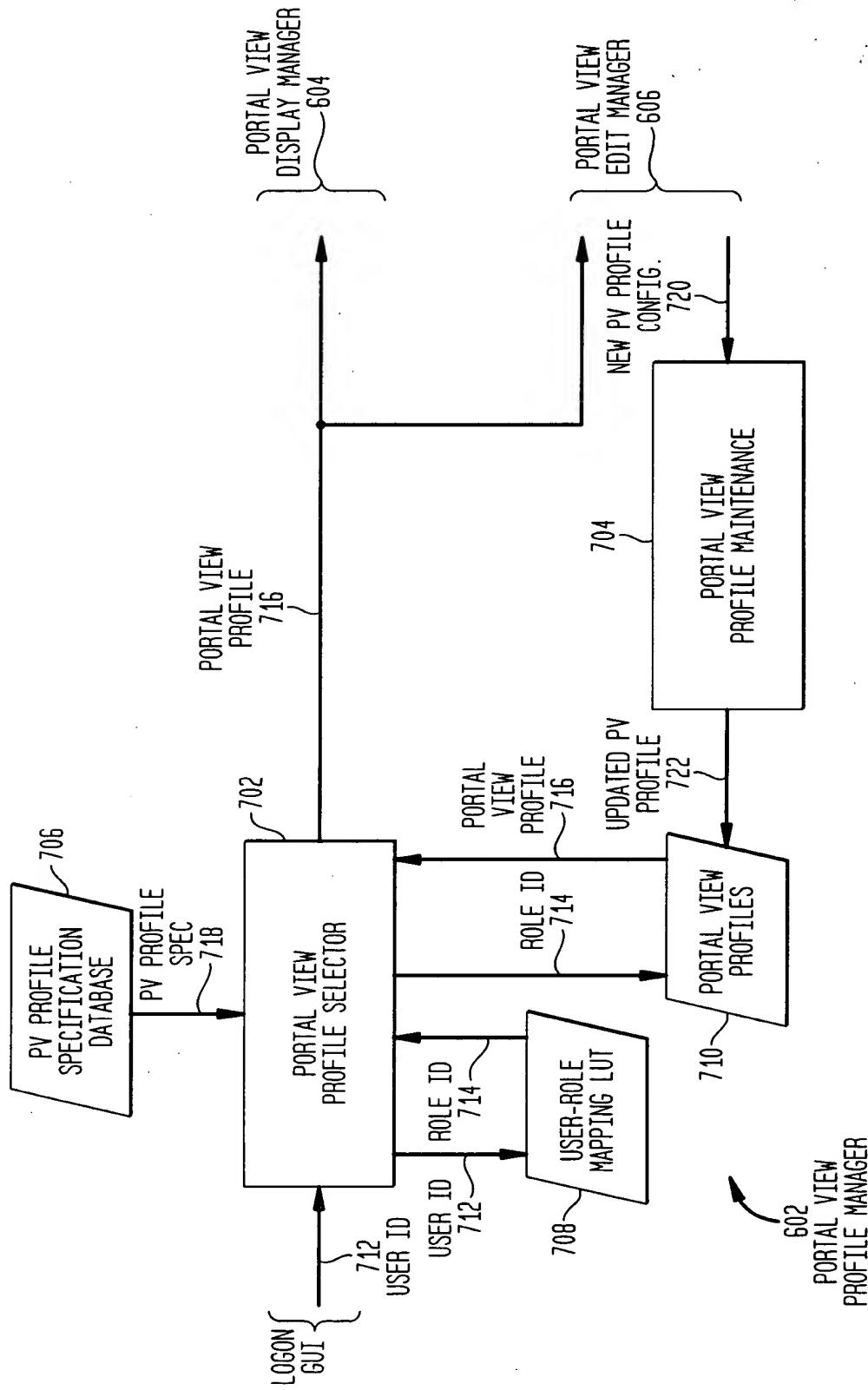
```
1 <?xml version="1.0" standalone="no"?>
2 <!DOCTYPE ModuleRegistration SYSTEM
3 "OVMModuleRegistration.dtd">
4 <ModuleRegistration
5   vendorName  = "Hewlett-Packard
6           Company"
7   vendorURL   = "http://www.
8           openview.hp.com"
9   description = "HP OpenView SIP Network
10          Device Health Module"
11  version     = "2.0"
12  category    = "NNM"
13  title       = "Network Device
14          Health"
15  classid    = "com.hp.ov.portal.
16          modules.health"
17  implementation
18      = "/servlet/com.hp.ov.
19          portal.modules.health.
20          HealthServlet"
21  outputType  = "narrow"
22  add         = "yes"
23  edit        = "yes"
24  help        = "/OvSipDocs/C/help/
25          NNM/healthView.html"
26  configDTD   = "OVNetworkHealth.dtd"
27  defaultConfigXML
28      = "defaults/
29          OVDefaultNetHealth.
30          xml"
31 />
```

FIG. 6



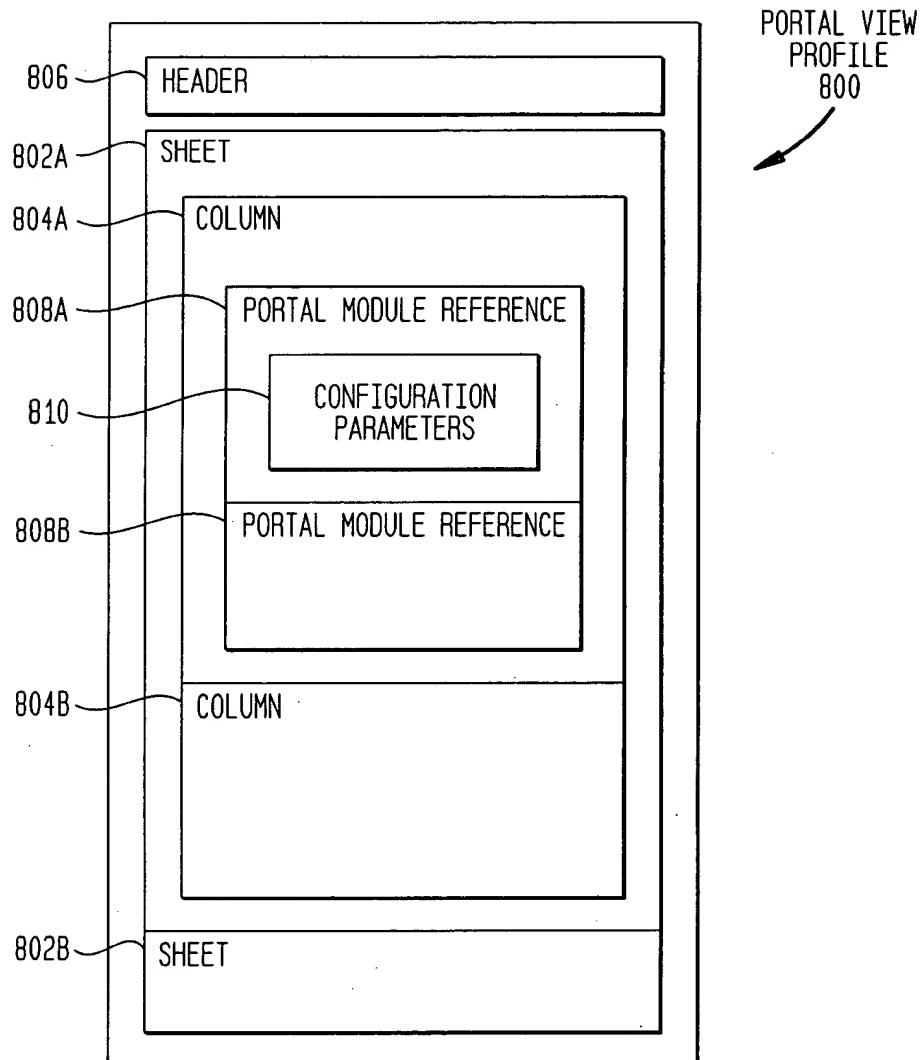
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FIG. 7



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FIG. 8



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FIG. 9

NETWORK HEALTH PORTAL
VIEW PROFILE SPECIFICATION

900

```
1 <!-- OVNetworkHealth.dtd
2 <!-- Copyright (c) 2000 Hewlett-Packard
3 Company
4 <!-- $Revision: /main/BACCHUS/7 $
5 <!-- $Date: 2001/04/11 20:41 UTC $
6 <!--
7 <!ELEMENT NetworkHealth (Summary+)
8 <!ATTLIST NetworkHealth
9   showRawData   (yes|no|YES|NO|1|0) "no"
10  showUnknown   (yes|no|YES|NO|1|0) "no"
11 >
12
13 <!ELEMENT Summary (Component+,
14 (NodeSelection | InterfaceSelection))>
15 <!ATTLIST Summary
16   id          CDATA #REQUIRED
17   title       CDATA #REQUIRED
18   display     (yes|no|YES|NO|1|0) "yes"
19   displayDepth (1|2|3) "3"
20 >
```

HEADER
902

NETWORK HEALTH
ELEMENT SPEC.
904

SUMMARY ELEMENT
SPEC.
906

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FIG. 10

FIGURE 10A

FIGURE 10B

FIGURE 10C

FIGURE 10D

FIGURE 10E

FIGURE 10F

FIGURE 10G

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FIG. 10A

PORTEL
VIEW PROFILE
1000

HEADER
1002

PORTEL VIEW
WINDOW
ATTRIBUTES
1004

PORTEL MODULE
REFERENCE
1006A

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <!DOCTYPE PortalView SYSTEM
3 " ./PortalView.dtd">
4 <PortalView
5 colorScheme="/0vSipDocs/styles/default.css"
6 defaultSheetID="NetworkSheet"
7 refreshRate="5000" showDateTime="yes"
8 showUserName="yes" userName="Any User">
9     <Sheet id="NetworkSheet" title="Network">
10        <Column width="narrow">
11            <ModuleInstance
12                classid="com.hp.ov.portal.modules.health"
13                display="yes" id="NetworkHealth"
14                rollupState="down">
15                    <NetworkHealth showRawData="no"
16                    showUnknown="no">
17                        <Summary display="no"
18                        displayDepth="3" id="InterfaceHealth"
19                        title="Interface Health">
20                            <Component href="#IfStatus"
21                            vital="yes" weight="2"/>
22                            <Component href="#IfUtil"
23                            vital="no" weight="1"/>
24                            <Component href="#IfInErrors"
25                            vital="no" weight="1"/>
26                            <Component
27                            href="#IfOutErrors" vital="no" weight="1"/>
28                                <InterfaceSelection
29                                id="AllInterfaces" op="AND" title="All
30 Interfaces"/>
31                        </Summary>
```

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FIG. 10B

PORTAL
VIEW PROFILE
1000

PORTAL MODULE
REFERENCE
1006A (CONT)

```
32 <Summary display="yes"
33 displayDepth="3" id="RouterHealth"
34 title="Router Health">
35     <Component href="#IfHealth"
36 vital="no" weight="1"/>
37     <Component
38 href="#CiscoCpuUtil" vital="no" weight="1"/>
39         <NodeSelection id="Routers"
40 op="AND" title="Routers">
41             <CapabilityFilter op="OR">
42                 <Capability
43 field="isRouter" value="true"/>
44             </CapabilityFilter>
45         </NodeSelection>
46     </Summary>
47     <Summary display="no"
48 displayDepth="3" id="KeyDeviceHealth"
49 title="Key Device Health">
50         <Component href="#IfHealth"
51 vital="no" weight="1"/>
52         <NodeSelection
53 id="KeyDevices" op="AND" title="Key Devices">
54             <CapabilityFilter op="OR">
55                 <Capability
56 field="isKeyDevice" value="true"/>
57             </CapabilityFilter>
58         </NodeSelection>
59     </Summary>
```

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FIG. 10C

PORTRAL
VIEW PROFILE
1000

PORTAL MODULE
REFERENCE
1006A (CONT)

```
60      <Summary display="no"
61 displayDepth="3" id="CPEHealth" title="CPE
62 Health">
63          <Component href="#IfHealth"
64 vital="no" weight="1"/>
65          <NodeSelection id="CPE"
66 op="AND" title="Customer Premise Equipment">
67              <CapabilityFilter op="OR">
68                  <Capability
69 field="isCPE" value="true"/>
70          </CapabilityFilter>
71          </NodeSelection>
72      </Summary>
73      <Summary display="no"
74 displayDepth="3" id="ServerHealth"
75 title="Server Health">
76          <Component href="#IfHealth"
77 vital="no" weight="1"/>
78          <NodeSelection id="Servers"
79 op="AND" title="Servers">
80              <CapabilityFilter op="OR">
81                  <Capability
82 field="isServer" value="true"/>
83          </CapabilityFilter>
84          </NodeSelection>
85      </Summary>
86      </NetworkHealth>
87  </ModuleInstance>
```

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FIG. 10D

PORTAL
VIEW PROFILE
1000

PORTAL MODULE
REFERENCE
1006B

VIEW WINDOW
ATTRIBUTES
1004

PORTAL MODULE
REFERENCE
1006C

```
88 <ModuleInstance  
89 classid="com.hp.ov.portal.modules.bookmarks"  
90 display="yes" id="BookmarksModule"  
91 rollupState="down">  
92     <Bookmarks>  
93         <Entry href="http://www.hp.com"  
94 target="bookmarkwin" title="HP Primary Site"/>  
95         <Entry  
96 href="http://www.openview.hp.com"  
97 target="bookmarkwin" title="HP OpenView Site"/>  
98     </Bookmarks>  
99     </ModuleInstance>  
100    </Column>  
101    <Column width="wide">  
102        <ModuleInstance  
103 classid="com.hp.ov.portal.modules.topomap"  
104 display="yes" id="Topology" rollupState="down">  
105         <TopologyMap drillDown="no"  
106 showStatus="yes">  
107         <Submap  
108 href="ovw://hpcndta/default/Internet"/>  
109         </TopologyMap>  
110     </ModuleInstance>
```

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FIG. 10E

PORtal
VIEW PROFILE
1000

PORTAL MODULE
REFERENCE
1006D

111 <ModuleInstance
112 classid="com.hp.ov.portal.modules.alarms"
113 display="yes" id="Alarm" rollupState="down">
114 <AlarmDisplay>
115 <CategoryDefName
116 href="ErrorAlarms.xml"/>
117 <CategoryDefName
118 href="ThresholdAlarms.xml"/>
119 <CategoryDefName
120 href="StatusAlarms.xml"/>
121 <CategoryDefName
122 href="ConfigurationAlarms.xml"/>
123 <CategoryDefName
124 href="ApplicationAlertAlarms.xml"/>
125 <CategoryDefName
126 href="AllAlarms.xml"/>
127 </AlarmDisplay>
128 </ModuleInstance>
129 </Column>
130 </Sheet>
131 <Sheet id="ServicesSheet" title="Services">
132 <Column width="narrow">
133 <ModuleInstance
134 classid="com.hp.ov.portal.modules.service.SvcCa
135 rdServlet" display="yes"
136 help="/OvSipDocs/C/help/VPNavigator/cardView.ht
137 ml" id="module10" rollupState="down"
138 title="Service Cards">
139 <ServiceCard details="no"
140 server="" />
141 </ModuleInstance>

VIEw WINDOW
ATTRIBUTES
1004

PORTAL MODULE
REFERENCE
1006E

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FIG. 10F

PORTAL
VIEW PROFILE
1000

```
142 <ModuleInstance
143 classid="com.hp.ov.portal.modules.service.SvcHe
144 althServlet" display="yes"
145 help="/OvSipDocs/C/help/VPNaginator/healthView.
146 html" id="module11" rollupState="down"
147 title="Service Health">
148 <ServiceHealth details="no"
149 server="">
150 <ServiceSummary critical="no"
151 id="normal" inverse="no" major="no" minor="no"
152 normal="yes" recursive="yes" scoreName="Normal"
153 title="Normal Services" warning="no"/>
154 <ServiceSummary critical="yes"
155 id="critical" inverse="yes" major="no"
156 minor="no" normal="no" recursive="yes"
157 scoreName="Critical" title="Critical Services"
158 warning="no"/>
159 <ServiceSummary critical="yes"
160 id="abnormal" inverse="yes" major="yes"
161 minor="yes" normal="no" recursive="yes"
162 scoreName="Abnormal" title="Abnormal Services"
163 warning="yes"/>
164 </ServiceHealth>
165 </ModuleInstance>
166 </Column>
167 <Column width="wide">
168 <ModuleInstance
169 classid="com.hp.ov.portal.modules.service.SvcLi
170 stServlet" display="yes"
171 help="/OvSipDocs/C/help/VPNaginator/browserView
172 .html" id="module7" rollupState="down"
173 title="Service Browser">
174 <ServiceBrowser details="no"
175 server="" />
176 </ModuleInstance>
```

PORTAL
MODULE
REFERENCE
1006F

VIEW WINDOW
ATTRIBUTES
1004

PORTAL
MODULE
REFERENCE
1006G

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FIG. 10G

PORTAL
VIEW PROFILE
1000

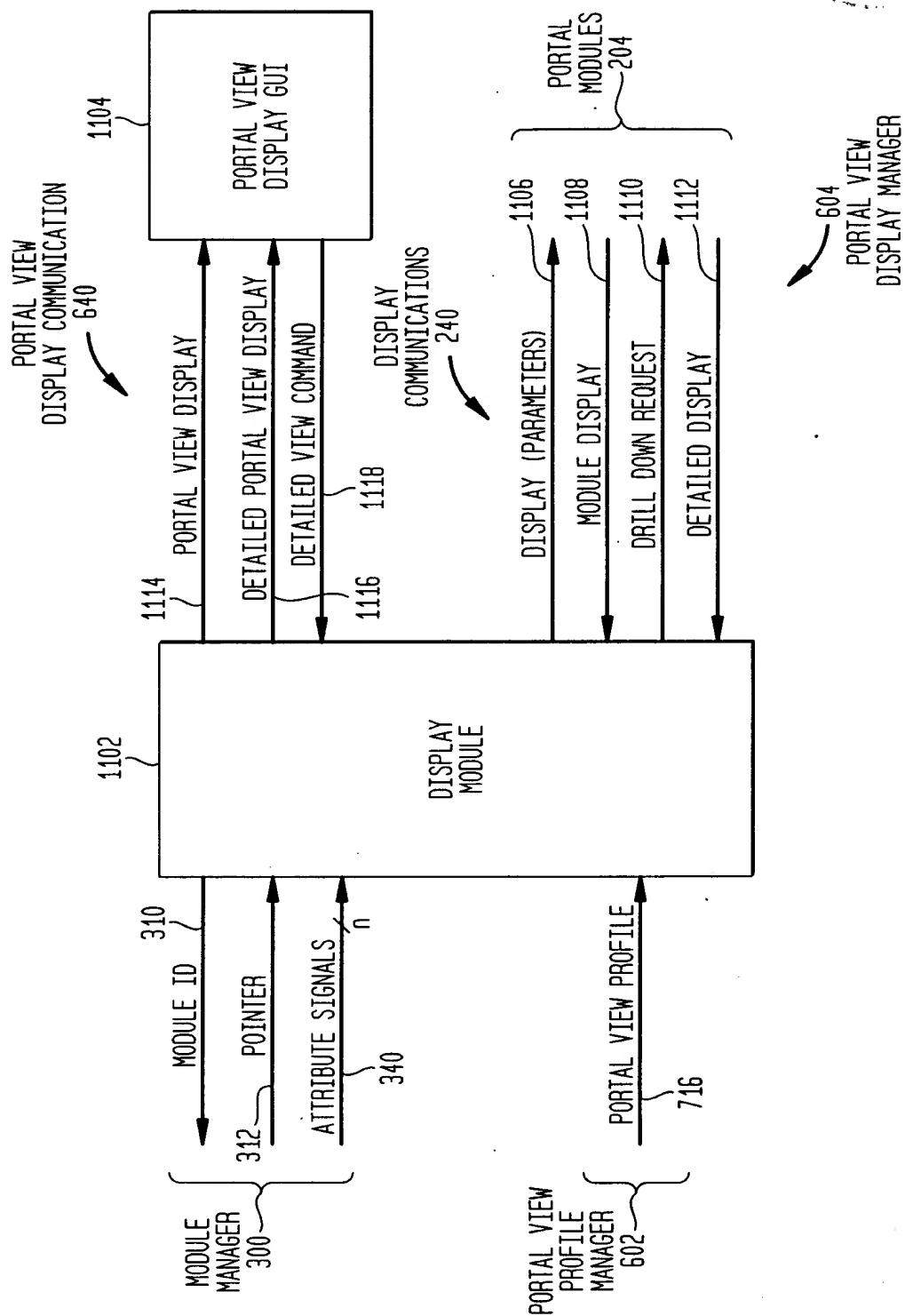
PORTAL MODULE
REFERENCE
1006H

VIEW WINDOW
ATTRIBUTES
1004

```
177 <ModuleInstance  
178 classid="com.hp.ov.portal.modules.service.SvcGr  
179 aphServlet" display="yes"  
180 help="/OvSipDocs/C/help/VPNavigator/graphView.h  
181 tml" id="module8" rollupState="down"  
182 title="Service Graph">  
183 <ServiceGraph server="" />  
184 </ModuleInstance>  
185 </Column>  
186 </Sheet>  
187 </PortalView>
```

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FIG. 11



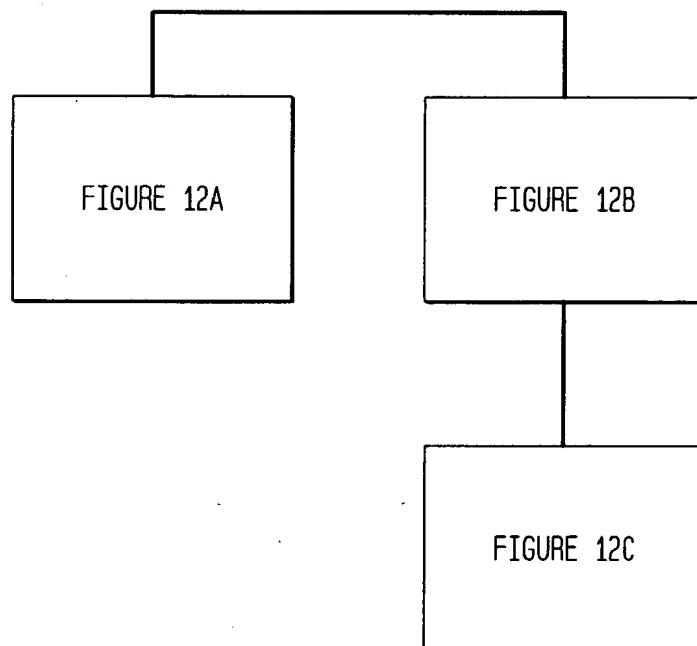
Hewlett-Packard 09/845427

A Portal System And Method For Managing
Resources In A Networked Computing
Environment

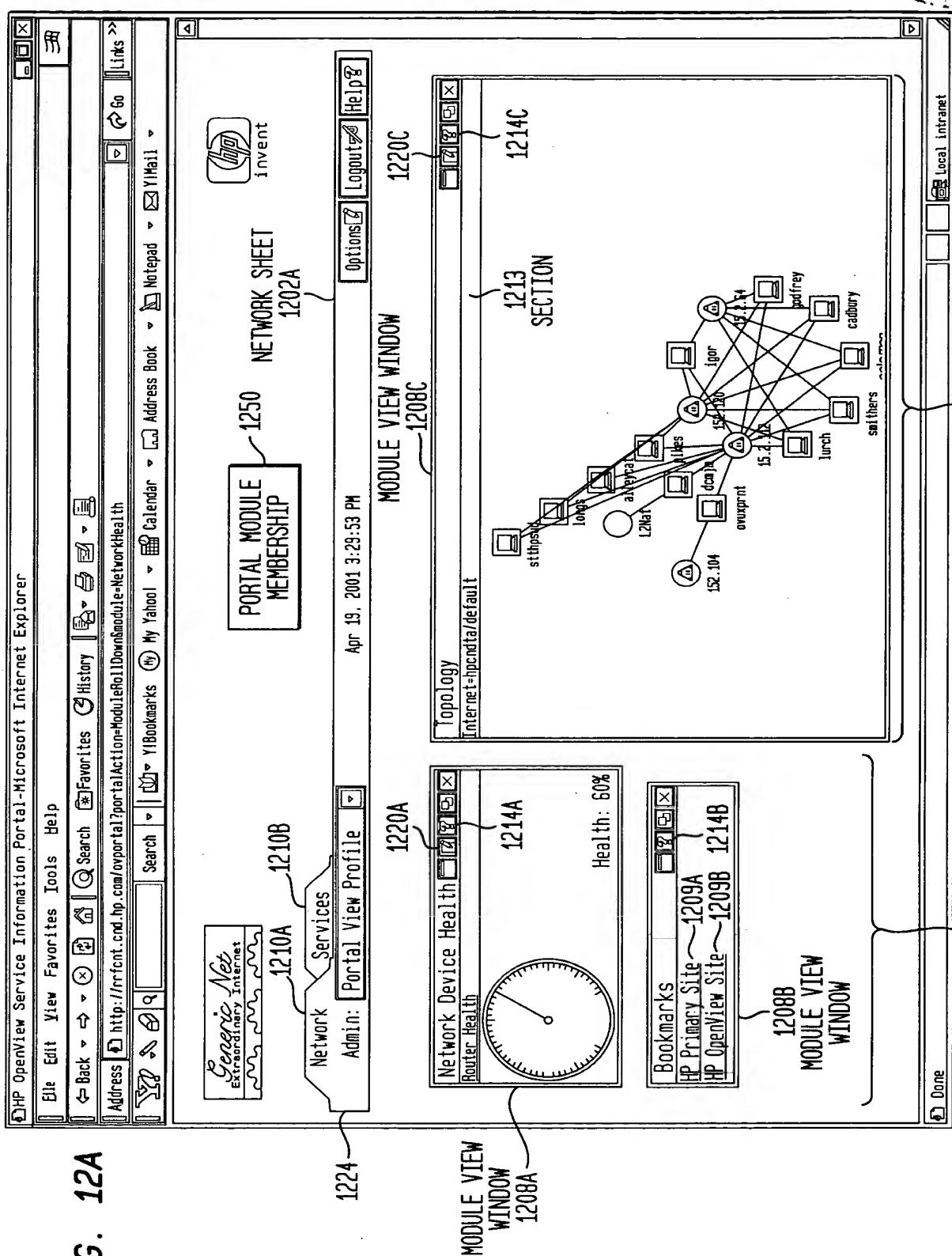
Inventor(s): Robert Raymond

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FIG. 12



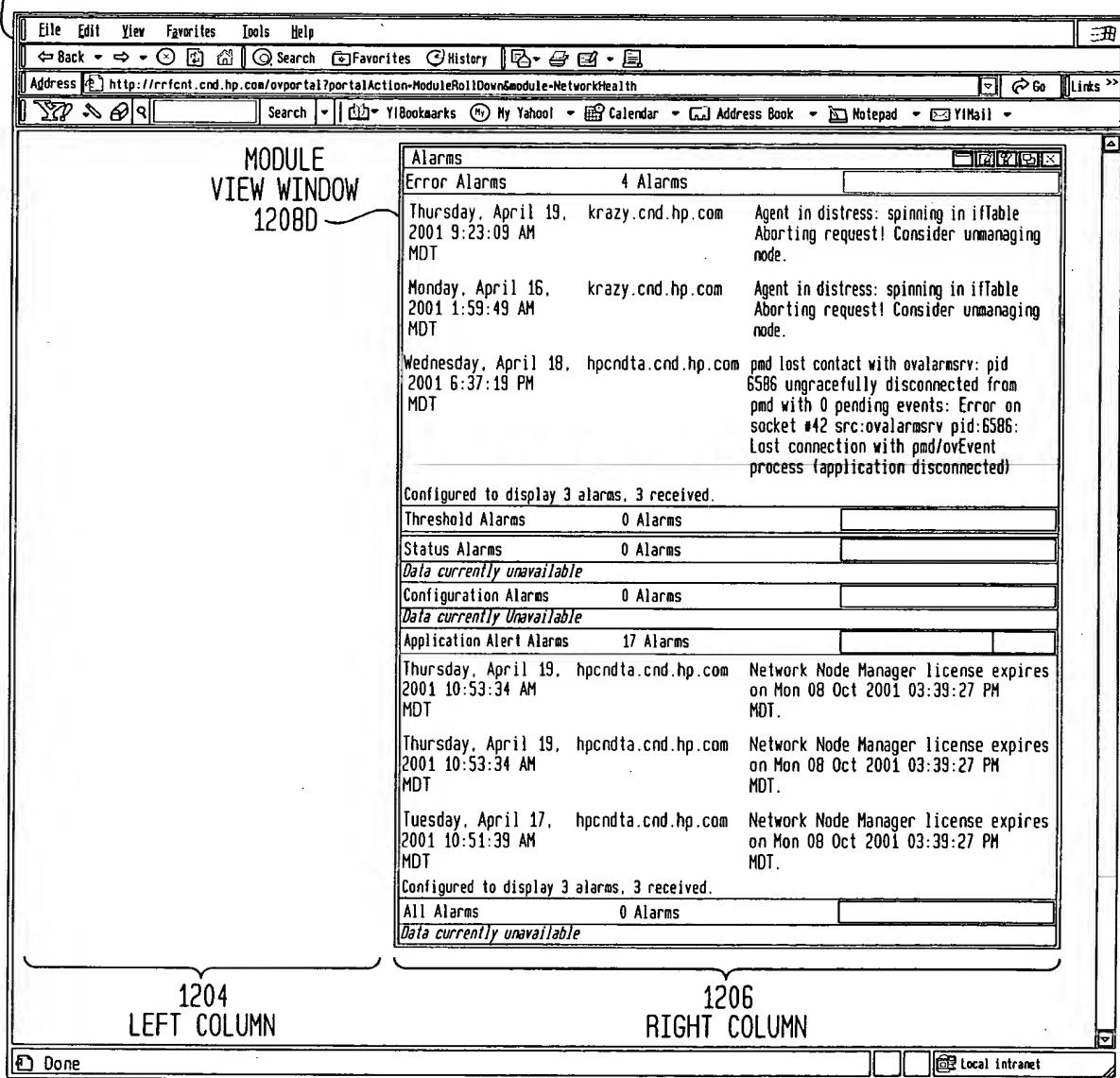
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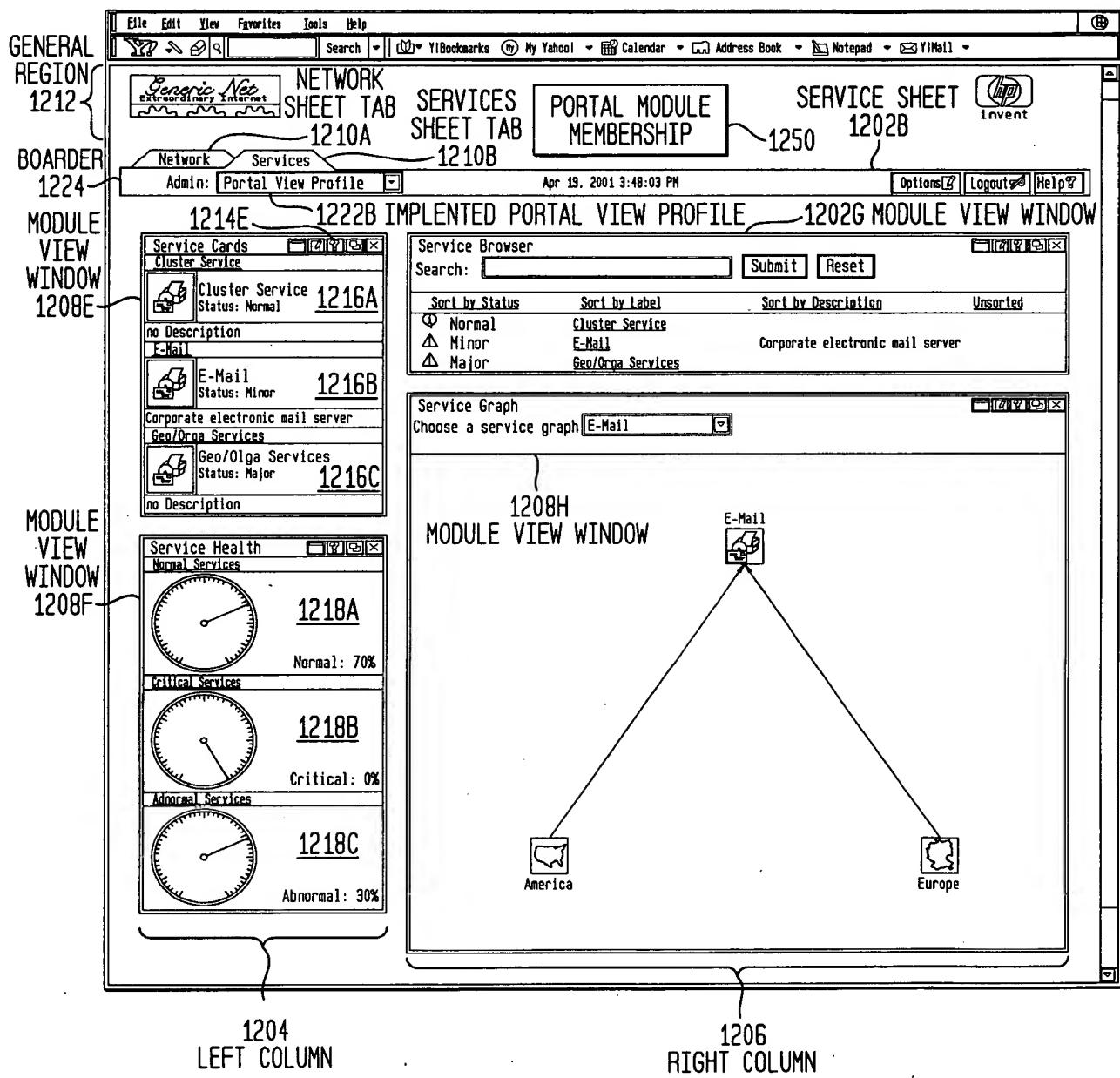
NETWORK
SHEET
(CONT)
1202A

FIG. 12B



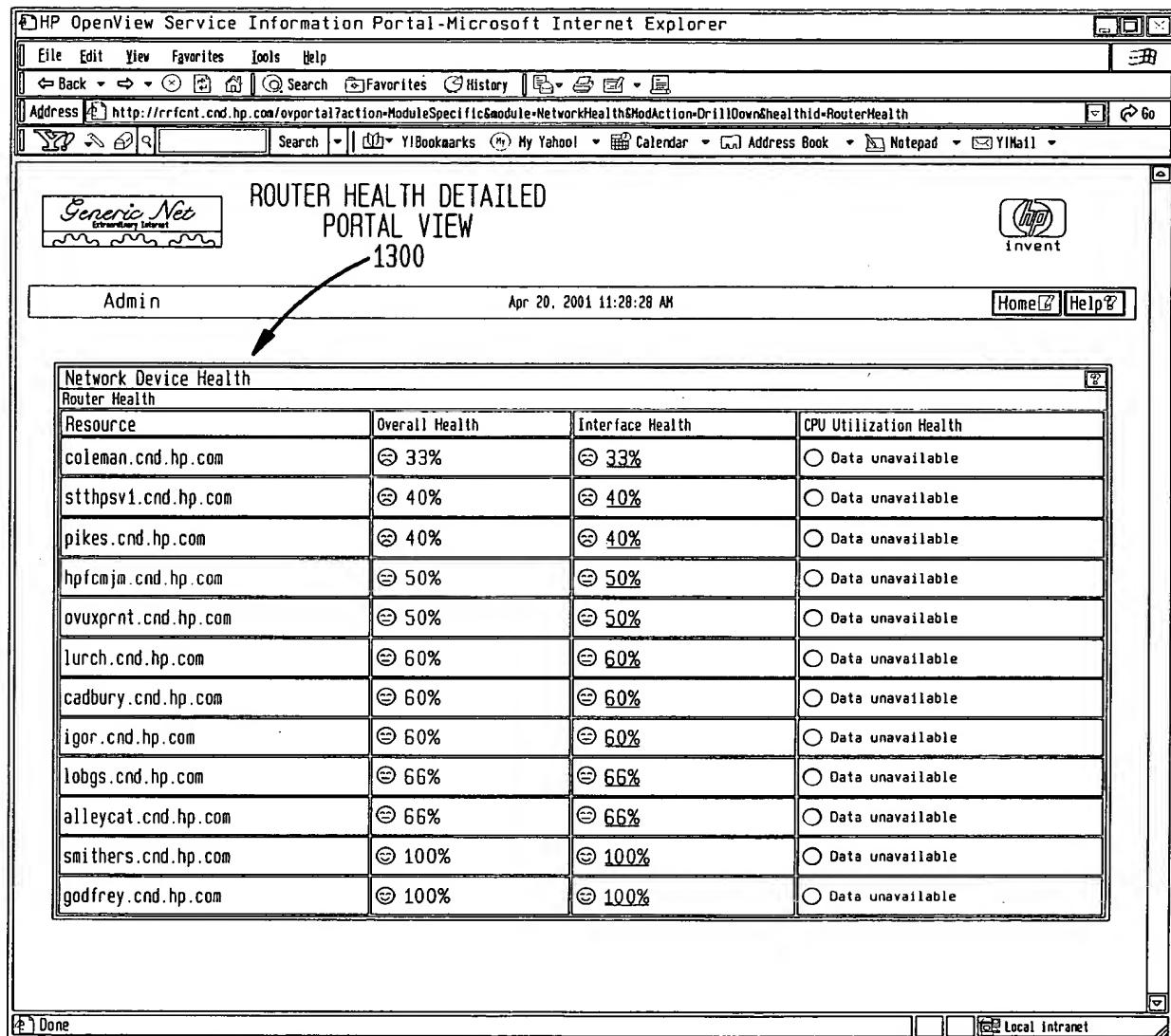
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FIG. 12C

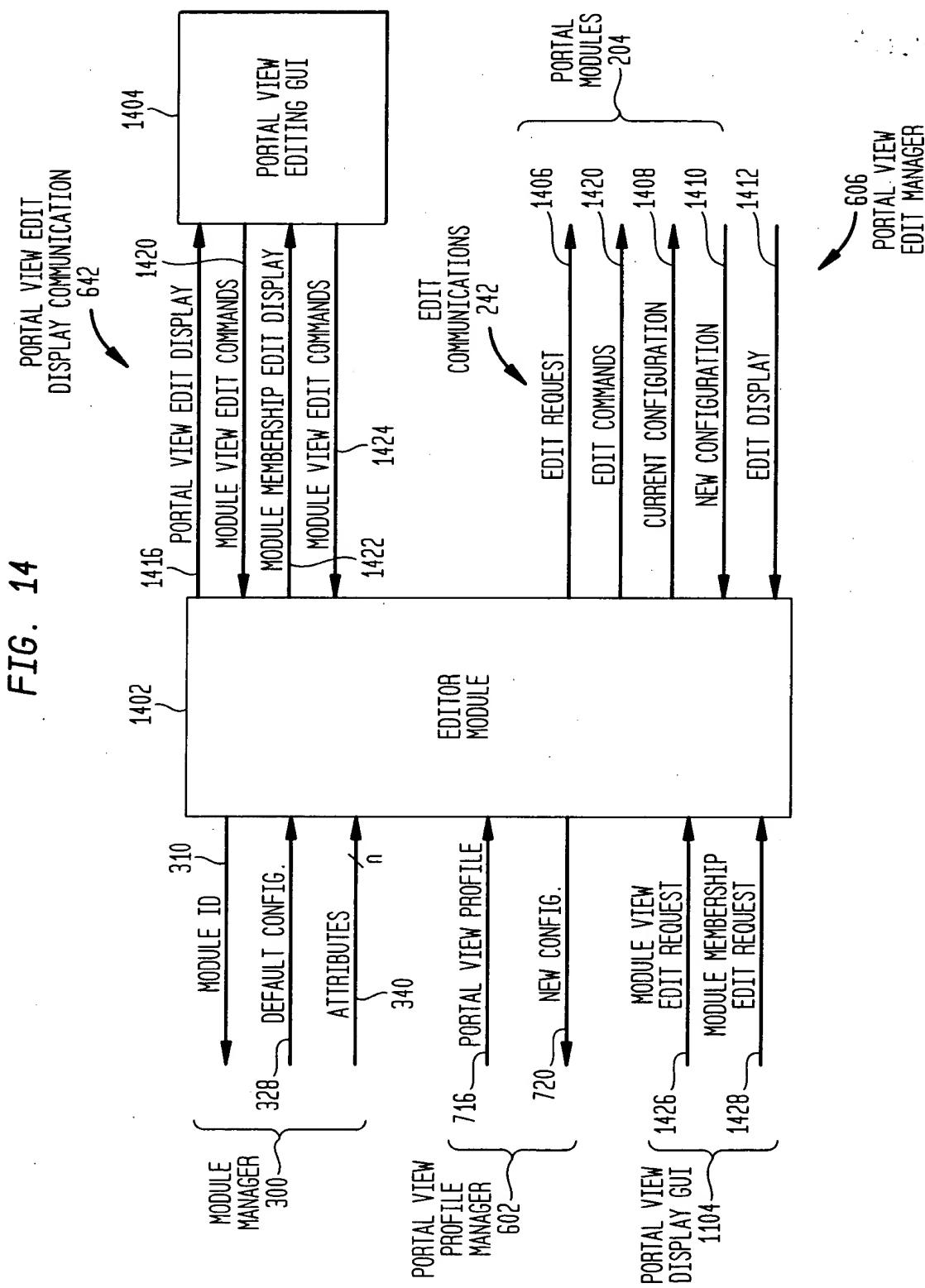


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FIG. 13



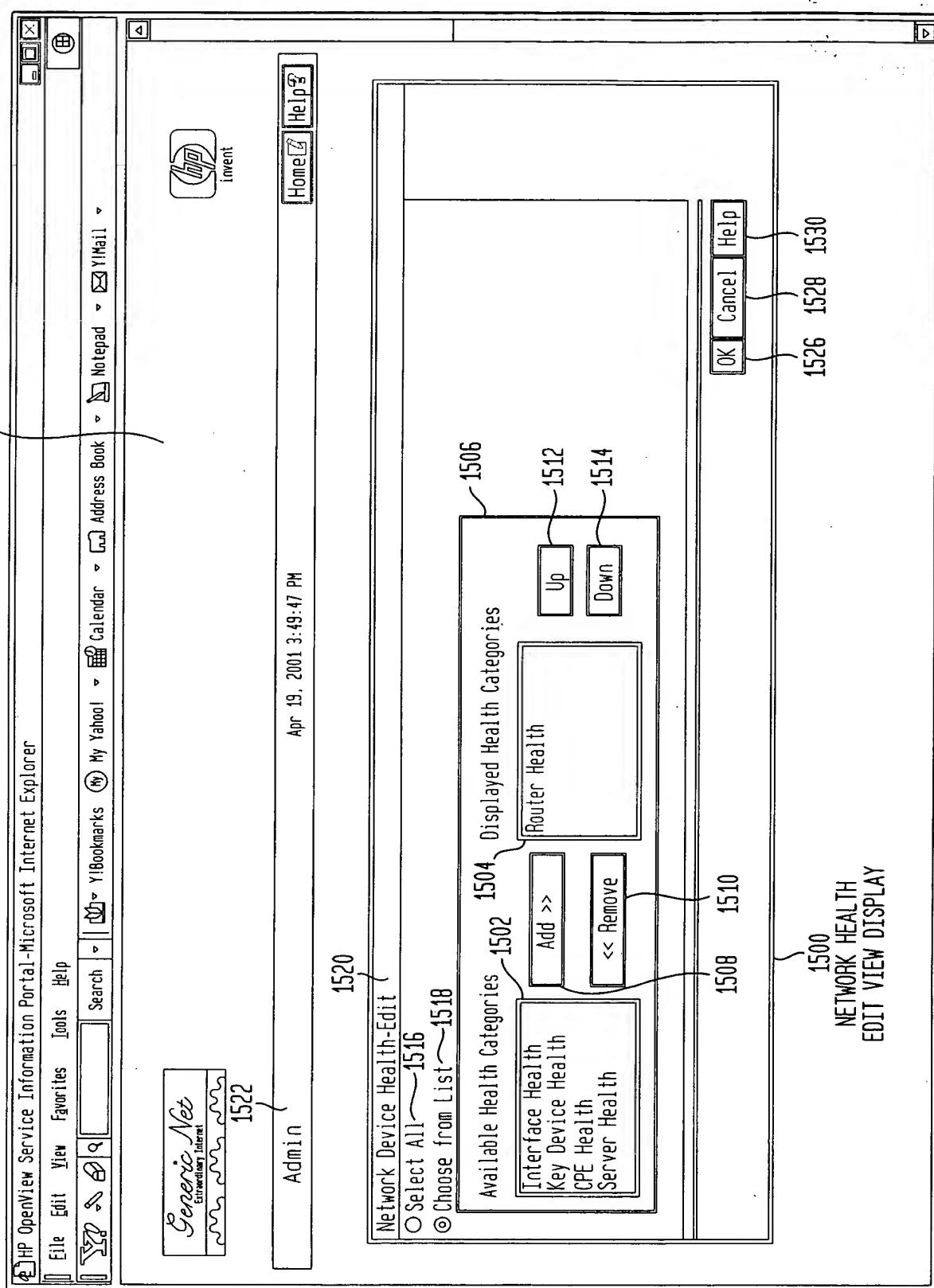
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FIG. 15

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FIG. 16

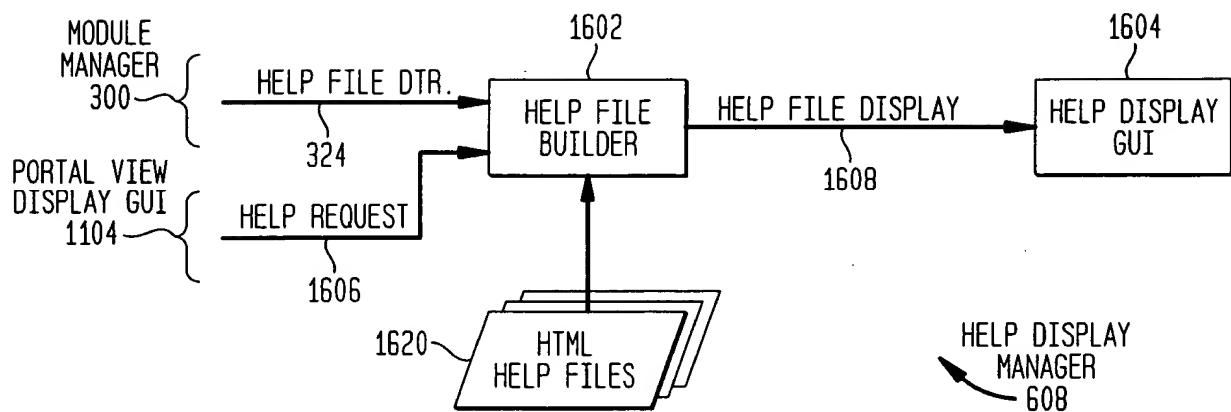
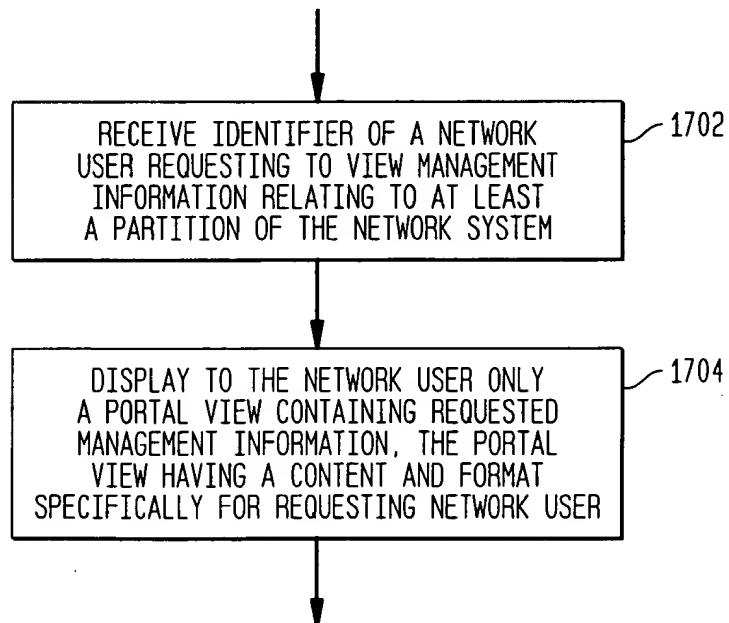
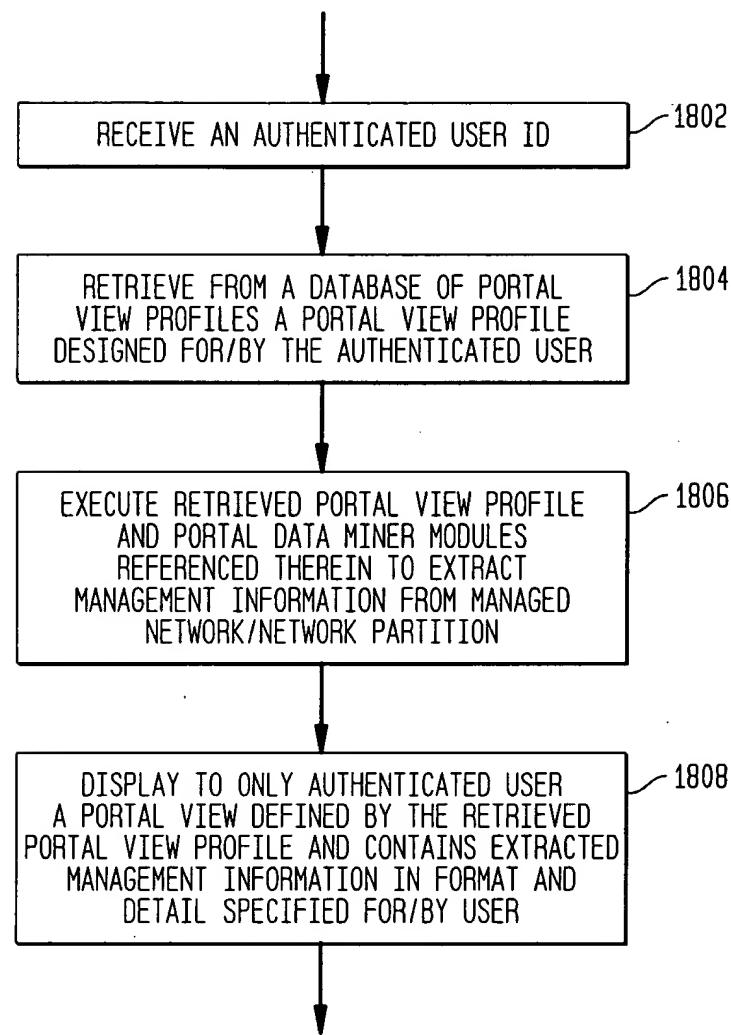


FIG. 17



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FIG. 18



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FIG. 19

